**Unit 3: Geometric Properties Quiz**

Knowledge and Understanding

1. The Area of triangle ABC is 12 square units. Find the Area of triangle ABD

**A**

**D**

**C**

**B**

1. 1. Which line segments are equal?
   2. Which line segments are perpendicular in triangle JKL.

**K**

**J**

**M**

**L**

1. Determine an equation for the line shown.

C (6, 5)

D

A (2, 2) B (7,2)

Application

1. Which of the following line segments inside each parallelogram are equal in length?

**A B**

**C D**

2. Which of the line segments inside each quadrilateral are parallel?

**D**

**G H**

**F**

3. Find the lengths of the sides of triangle TUV and find the slopes of each side.

**T (2, 6)**

**V (4, 0)**

**U (-2, -2)**